

Community Involvement In Enhancing the Global Change Master Directory (GCMD) Controlled Vocabularies (Keywords)



<http://gcmd.nasa.gov>

T. Stevens^{1, 2}, S. Ritz^{1, 2}, A. Aleman^{1, 2}, M. Genazzio^{1, 2}, M. Morahan^{1, 3}, S. Wharton¹ (¹ NASA/GSFC, ² KBR WYLE, ³ ADNET Systems)

(Paper Number: IN43C-1707)

Introduction

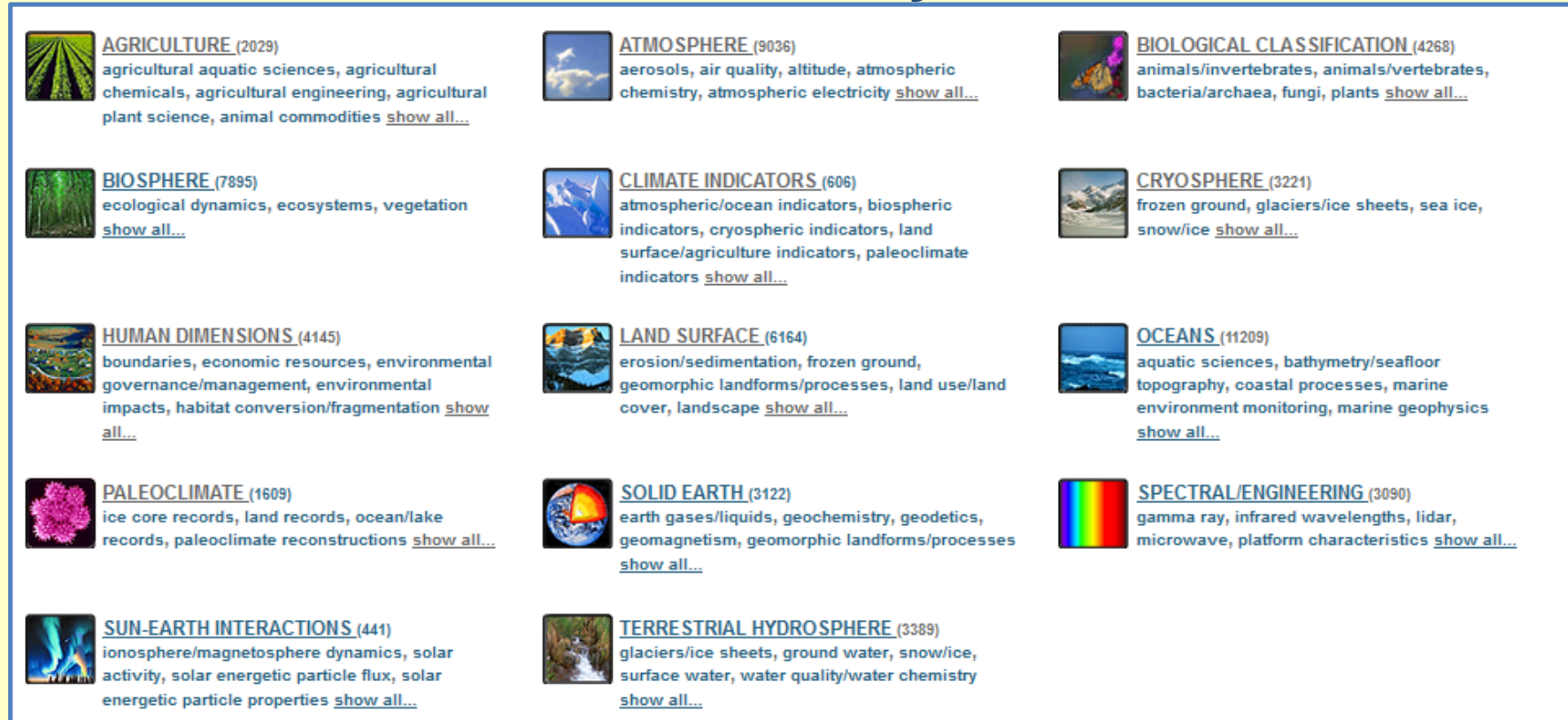
NASA's Global Change Master Directory (GCMD) has been developing and expanding a hierarchical set of controlled vocabularies (keywords) covering the Earth sciences for over twenty years. The keywords are accessible in a standardized SKOS/RDF/OWL representation and are being used as an authoritative taxonomy, as a source for developing ontologies, and as a mechanism to search and access Earth Science data within metadata catalogues. The keyword development approach involves: (1) receiving community suggestions, (2) triaging community suggestions, (3) evaluating the keywords against a set of criteria coordinated by the NASA ESDIS Standards Office (ESO), and (4) publication/notification of the keyword changes. For more information on the GCMD Keywords and the full governance process, visit the keyword landing page at <https://earthdata.nasa.gov/about/gcmd/global-change-master-directory-gcmd-keywords>.

Keyword Overview

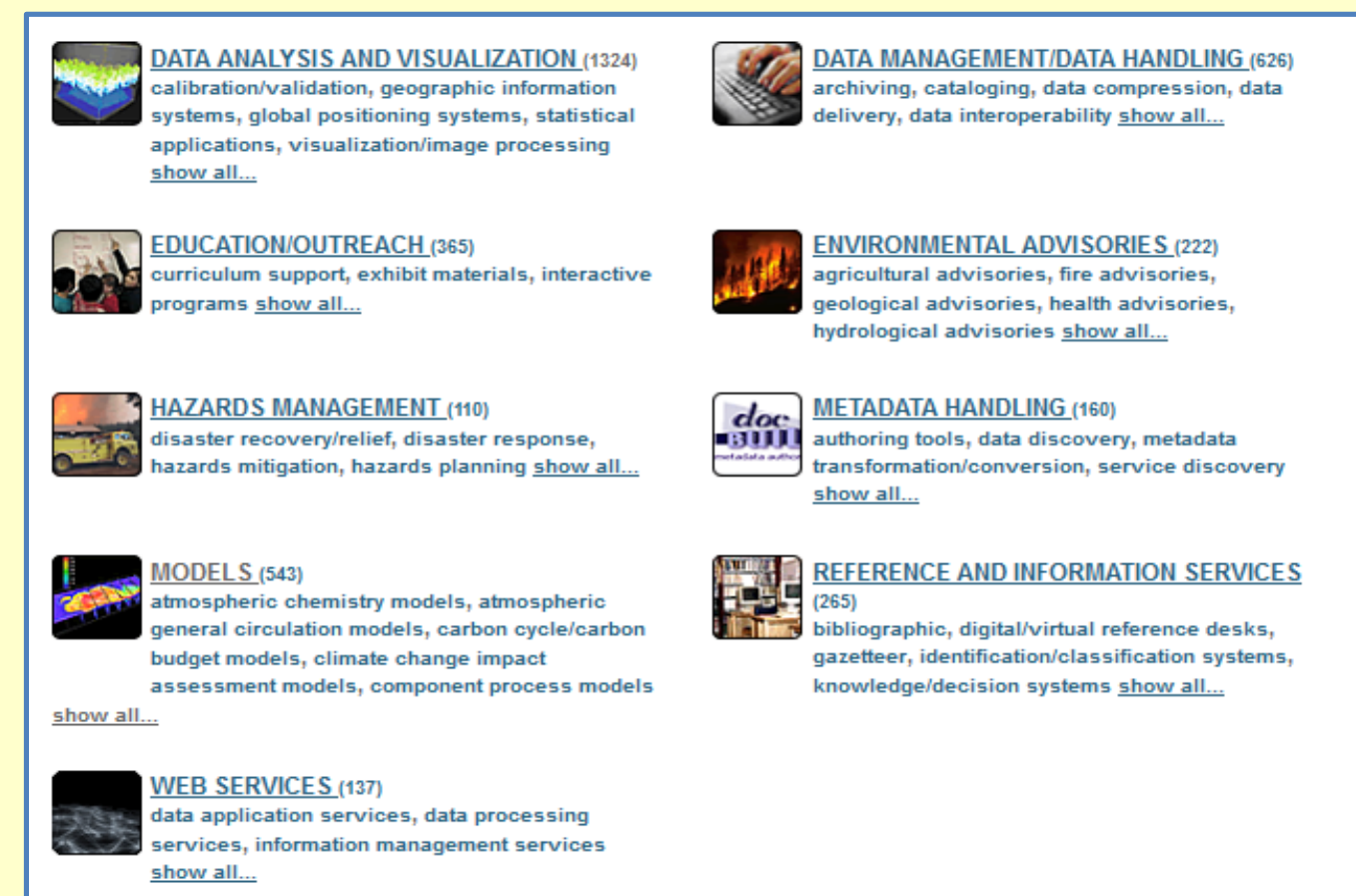
GCMD Keyword Types:

- Earth Science
- Earth Science Services
- Data Centers
- Projects
- Instruments/Sensors
- Platforms/Sources
- Locations
- Horizontal Data Resolution
- Vertical Data Resolution
- Temporal Data Resolution
- URL Content Types
- Chronostratigraphic Units

Earth Science Keywords



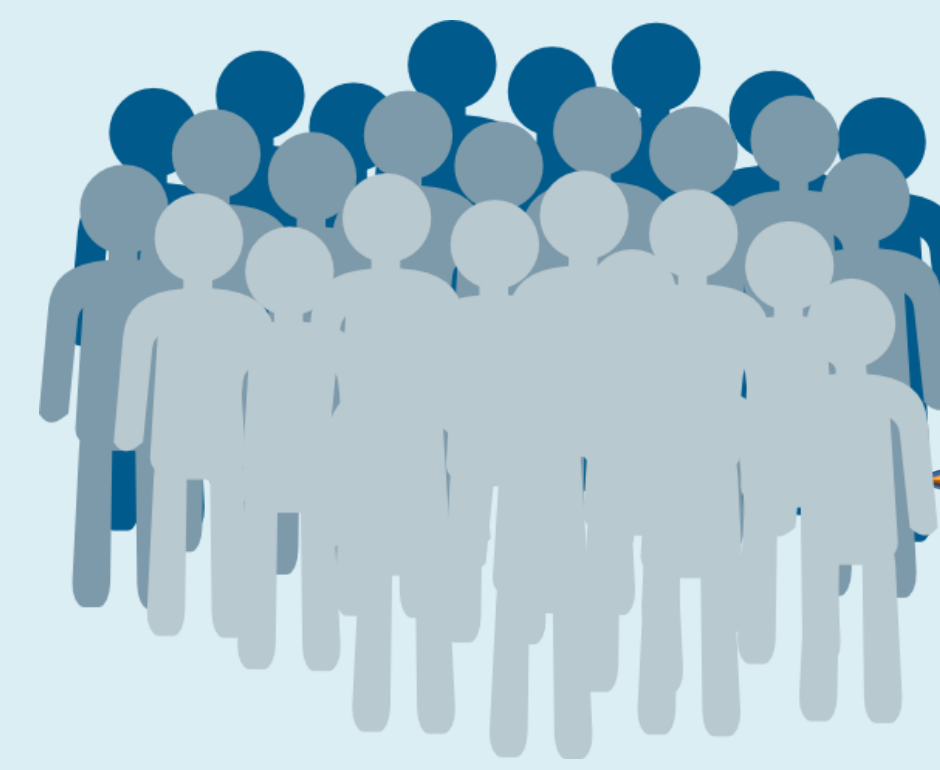
Earth Science Services Keywords



Keyword Hierarchy

Keyword Level	Example
Category	Earth Science
Topic	Atmosphere
Term	Weather Events
Variable Level 1	Subtropical Cyclones
Variable Level 2	Subtropical Depression
Variable Level 2	Subtropical Depression Track
<i>Detailed Variable</i>	<i>(Uncontrolled Keyword)</i>

Keyword Community Forum



Have a Recommendation for a Keyword or a Question About the GCMD Keywords To Discuss?

The GCMD Keyword Community Forum provides keyword users and metadata providers with an area for discussion of topics related to the GCMD Keywords. Participants are invited to use the forum to ask questions, submit keyword requests, discuss trade-offs, and track the status of keyword requests. See <http://earthdata.nasa.gov/gcmd-forum>.

GCMD Keywords Community Forum Home

Created by Ross Bagwell, last modified by Tyler Stevens on Oct 31, 2016

Welcome! The purpose of this forum is to provide keyword users and metadata providers with an area for discussion of topics related to the GCMD Keywords. Participants are invited to use this forum to ask questions, submit keyword requests, discuss trade-offs, and track the status of keyword requests.

Announcements

- GCMD Keywords Version 8.4 Release
- GCMD Keyword Governance and Community Guide Document

Forum

Search for Topics... [+ New Topic](#) 12 topics found

☒ Include comments [Show Advanced Filters](#) [Sticky topics on top](#) ☒

Keyword Topic	Author	Creation Date	# of Replies	Last Activity Date
GOES-R Platform Keyword Changed to GOES-16 new	Scott Ritz	Dec 01, 2016	0	Dec 01, 2016
Investigation of Keyword Viewer	Tyler Stevens	Jun 30, 2016	1	Nov 30, 2016
Identifying individual GCMD keyword sets	Rowan Brownlee	Nov 16, 2016	1	Nov 22, 2016
Summary of Proposed Keywords For Version 8.5 and 8.6	Tyler Stevens	Nov 21, 2016	0	Nov 21, 2016
Usage of GCMD concept URIs	Rowan Brownlee	Nov 16, 2016	1	Nov 17, 2016

How To Use This Forum

To post, an **Earthdata Login** account is required.

- Directions for Using the Forum
- Requirements for Posting to the Forum

Keyword FAQ's

- What Are the GCMD Keywords?
- How Do I Submit a Keyword Request or Issue?
- How Do I Access the GCMD Keywords?
- How Do I Cite the GCMD Keywords?

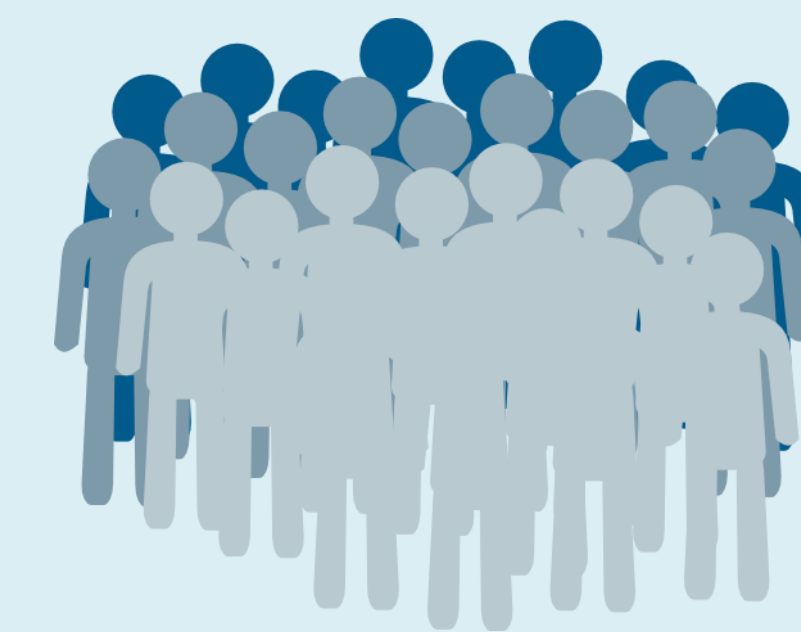
Related Keyword Links

- More on GCMD Keywords
- Other Related Links
- Open Keyword Requests
- All Keyword Requests

Other Forums

- Atmospheric Science User Forum
- Ocean Science:
 - [Ocean Biology Distributed Active Archive Center \(OB.DAAC\)](#)
 - [Physical Oceanography Distributed Active Archive Center \(PO.DAAC\)](#)

Keyword Review Process



What is the review process when submitting a keyword suggestion?

User Submits Keyword Request

Triage Keyword Request

Review by Subject-Matter Experts

Publish Keywords

Keyword Release Announcement

Become a Keyword Reviewer

The GCMD Keywords review is facilitated by the NASA Earth Science Data and Information Systems (ESDIS) Standards Office (ESO) and involves subject-matter experts reviewing proposed keywords biannually using a set of criteria and filling in a questionnaire with feedback. If you are interested in becoming a keyword reviewer, please contact the ESO at eso-staff@lists.nasa.gov.